

REMARKS

Reconsideration and allowance of the present application are respectfully requested. Claims 2-10, 12-19, 21-27 and 29-37 remain pending in the application. By the foregoing amendment, claims 2, 7, 12, 21 and 29 are amended.

On pages 3-5 of the Office Action, the Examiner rejects claims 2-10, 12-19, 21-27 and 29-37 under 35 U.S. C. §112, second paragraph, as being indefinite. To address the Examiner's concerns, claims 2, 12, 21 and 29 are amended to obviate the rejection. Withdrawal of the rejection under 35 U.S. C. §112, second paragraph, is respectfully requested.

On pages 6-10 of the Office Action, independent claims 2, 12, 21 and 29, along with all dependent claims, are rejected as being unpatentable over U.S. 6,580,870 (Kanazawa et al.) in view of U.S. 6,496,847 (Bugnion et al.). This rejection is respectfully traversed.

Applicants have disclosed an application program layer with DVD player software 22, web browser 24 and other application programs 26 operably connected to an operating system 30. As exemplified in Fig. 1, the operating system 30 is operably connected to the DVD hardware 40. The DVD player software 22 initiates data requests to the operating system 30. The operating system 30 uses control signals sent to the DVD data hardware to obtain data from the DVD 42. This DVD data is sent from the DVD data hardware 40 to the operating system 30 that provides it to the DVD player software 22. The DVD discs, player hardware, and player software operate in accordance with the official DVD specification (e.g., page 4, lines 14-22).

If the DVD player software 22 requests DVD data associated with a resource indication, a system extension software 32 starts an application program which then receives the resource indication. In one embodiment, the resource indication is a URL which is provided to a web browser 24. Alternatively, the resource indication can point to any other type of resource. For example, the resource indication could be a file indication that brings up data stored in a file of the computer or network (e.g., page 5, lines 1-9). An advantage of having the operating system examine the DVD addresses is that the DVD player software 22 need not be modified to support the obtaining of content external to the DVD (e.g., page 5, lines 10-12).

The foregoing features are broadly encompassed by claim 2, which recites, among other features, in an operating system, checking a digital versatile disc (DVD) for resource indications and address regions associated with said resource indications; while playing the DVD, in the operating system examining the addresses of requested DVD data for a match with the addresses associated with the resource indications; and if a match is found, in the operating system starting an application program and providing the resource indication having the matching associated address to the application program to obtain a resource external to the DVD while a DVD player software operates to play the DVD. Claims 12, 21 and 29 recite a system, a computer readable medium, and an apparatus having elements performing similar functions.

The Kanazawa et al. patent discloses an audiovisual reproducing system which displays title information recorded on a DVD. When a user clicks a Web mark on the screen, the system provides a Web access related to the stream information on the screen (abstract). However, the Kanazawa et al. patent is based on reading

an information management table 40b which is read from the DVD 40 at the beginning of the playback (col. 6, lines 43-50). Further, a user typically actuates a display button to launch a DVD playback control program 116, at which time the DVD playback mode is halted to launch the WWW browser 117 operation (col. 16, lines 18-33). The Kanazawa et al. patent does not teach or suggest in an operating system examining the addresses of requested DVD data for a match with the addresses associated with the resource indications; and if a match is found, in the operating system starting an application program and providing the resource indication having the matching associated address to the application program to obtain a resource external to a DVD while a DVD player software operates to play the DVD, as recited in claims 2, and as similarly recited in claims 12, 21 and 29.

The Bugnion et al. patent does not cure the deficiencies of the Kanazawa et al. patent. The Bugnion et al. patent was cited for its disclosure of a driver extension 390 of an operating system (col. 15, lines 26-34). The Bugnion et al. patent does not teach or suggest in an operating system examining the addresses of requested DVD data for a match with the addresses associated with the resource indications; and if a match is found, in the operating system starting an application program and providing the resource indication having the matching associated address to the application program to obtain a resource external to a DVD while a DVD player software operates to play the DVD, as recited in claims 2, and as similarly recited in claims 12, 21 and 29.

At least for the foregoing reasons, Applicants' claims 2, 12, 21 and 29 are allowable. The remaining claims depend from the respective independent claim and recite additional advantageous features which further distinguish over the documents

relied upon by the Examiner. As such, the present application is in condition for allowance.

All objections and rejections raised in the Office Action having been addressed, it is respectfully submitted that the application is in condition for allowance and a Notice of Allowance is respectfully solicited.

Respectfully submitted,

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